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RAYO 9306.10
(RP-1629SE)
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Bushong, et al. Art Unit TBD
Serial No. 10/582,193 ✓
Filed June 9, 2006
Confirmation No. TBD
For HIGH CAPACITY ALKALINE UTILIZING CATHODE EXTENDER

September 14, 2006

TO THE COMMISSIONER FOR PATENTS,

SIR:

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants cite the references listed on the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein. In accordance with the Pre-OG notice of July 11, 2003 partially waiving the requirements of 37 C.F.R. 1.98(a)(2)(i), copies of the U.S. patent documents are not supplied.

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. §1.97(b) in that applicants believe that it is being filed prior to the mailing date of the first Office action on the merits. Accordingly neither a statement nor fee under 37 C.F.R. §1.97(c) or (d) is required. However, if an Office action was issued prior to the date of mailing of this Information Disclosure Statement, the Commissioner is hereby authorized to charge the fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement. Additionally, the Commissioner is hereby

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authorized to charge any other fees regarding this Information
Disclosure Statement to Deposit Account No. 19-1345.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Chris Goff", written over the printed name.

Christopher M. Goff, Reg. No. 41,785
SENNIGER, POWERS, LEAVITT & ROEDEL
One Metropolitan Square, 16th Floor
St. Louis, Missouri 63102
(314) 231-5400



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CERTIFICATE OF MAILING

I certify that this Information Disclosure Statement in the application of Bushong, et al., Serial No. 10/582,193, filed June 9, 2006, is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on this 14th day of September, 2006.

Daphne H. Moore
Daphne H. Moore

CMG/JMB/dhm

PTO/SB/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known		
				Application Number		10/582,193
				Filing Date		June 9, 2006
				Confirmation Number		TBD
				First Named Inventor		William Bushong
				Group Art Unit		TBD
				Examiner Name		TBD
Sheet	1	of	16	Attorney Docket No.		RAYO 9306.10 (RP-1629SE)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
	1	274,110		De Lalande, et al.	03-20-1883
	2	430,279		Edison	06-17-1890
	3	479,887		De Lalande	08-02-1892
	4	519,330		Hertel	05-08-1894
	5	533,078		O'Toole	01-29-1895
	6	555,304		Crowdus	02-25-1896
	7	684,204		Edison	01-08-1901
	8	762,425		Lord	06-14-1904
	9	871,214		Edison	11-19-1907
	10	1,134,093		Bauer	04-16-1915
	11	1,255,283		Benner, et al.	02-05-1918
	12	1,282,057		Erwin	10-22-1918
	13	1,316,760		Benner, et al.	10-23-1919
	14	1,316,761		Benner, et al.	10-23-1919
	15	1,375,647		Benner, et al.	04-19-1921
	16	1,378,549		Manchester, et al.	05-17-1921
	17	1,415,860		Benner, et al.	05-16-1922
	18	1,434,469		Wilker	11-07-1922
	19	1,437,287		Willis	11-28-1922
	20	1,438,086		Benner, et al.	12-05-1922
	21	1,450,004		Martus	03-27-1923
	22	1,486,955		Dunham	03-18-1924
	23	1,564,741		Wolfe	12-08-1925
	24	1,579,558		Martus, et al.	04-06-1926
	25	1,599,121		Edison	09-07-1926
	26	1,602,402		Flath	10-12-1926

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Sheet	2	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	27	1,624,460		Armstrong	04-12-1927
	28	1,624,845		Nyberg	04-12-1927
	29	1,637,446		Hendry	08-02-1927
	30	1,644,344		Martus, et al.	10-04-1927
	31	1,644,389		Martus, et al.	10-04-1927
	32	1,657,543		Lynn	01-31-1928
	33	1,706,895		Martus, et al.	03-26-1929
	34	1,711,462		Wescott	04-30-1929
	35	1,725,716		Martus, et al.	08-20-1929
	36	1,784,592		Heise, et al.	12-09-1930
	37	1,786,945		Hendry	12-30-1930
	38	1,815,508		Heise	07-21-1931
	39	1,830,234		Martus, et al.	11-03-1931
	40	1,831,460		Martus, et al.	11-10-1931
	41	1,835,867		Heise	12-08-1931
	42	1,835,868		Heise	12-08-1931
	43	1,836,720		Martus, et al.	12-15-1931
	44	1,855,917		Martus	04-26-1932
	45	1,863,791		Heise	06-21-1932
	46	1,864,652		Heise	07-28-1932
	47	1,920,151		Ruben	07-25-1933
	48	1,932,654		Dunham	10-31-1933
	49	1,936,792		Kahler	11-28-1933
	50	1,941,869		Martus, et al.	01-02-1934
	51	2,048,804		Martus, et al.	07-28-1936
	52	2,077,561		Heise	04-20-1937
	53	2,157,072		Eddy	05-02-1939
	54	2,175,885		Eddy	10-10-1939
	55	2,189,463		Eddy	02-06-1940
	56	2,233,593		Eddy, et al.	03-04-1941
	57	2,269,040		Rublee	01-06-1942
	58	2,369,033		Eubank	02-06-1945

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Sheet	3	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	59	2,390,574		Dunham, et al.	12-11-1945
	60	2,422,045		Ruben	06-10-1947
	61	2,422,046		Ruben	06-10-1947
	62	2,441,481		Garrity	05-11-1948
	63	2,450,472		Dunham, et al.	10-05-1948
	64	2,457,948		Thomas	01-04-1949
	65	2,458,878		Ruben	01-11-1949
	66	2,463,565		Ruben	03-08-1949
	67	2,473,546		Ruben	06-21-1949
	68	2,481,539		Ruben	09-19-1949
	69	2,502,723		Harriss	04-04-1950
	70	2,509,249		Ruben	05-30-1950
	71	2,526,692		Ruben	10-24-1950
	72	2,527,576		Ruben	10-31-1950
	73	2,542,574		Ruben	02-20-1951
	74	2,562,215		Ruben	07-31-1951
	75	2,594,714		Andre	04-29-1952
	76	2,612,534		Blake	09-30-1952
	77	2,635,127		Yardney, et al.	04-14-1953
	78	2,650,945		Herbert	09-01-1953
	79	2,670,395		Audubert	02-23-1954
	80	2,679,546		Eisen	05-25-1954
	81	2,692,215		Ruben	10-19-1954
	82	2,701,272		Reiner	02-01-1955
	83	2,768,229		Herbert	10-23-1956
	84	2,786,088		Robinson	03-19-1957
	85	2,788,383		Robinson	04-09-1957
	86	2,809,225		Morehouse, et al.	10-08-1957
	87	2,829,186		Kort	04-01-1958
	88	2,829,189		Coleman, et al.	04-01-1958
	89	2,859,266		Garvey, et al.	11-04-1958
	90	2,859,267		Garvey, et al.	11-04-1958

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Sheet	4	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	91	2,902,530		Eisen	09-01-1959
	92	2,942,050		Denes, et al.	06-21-1960
	93	2,969,413		Peters	01-24-1961
	94	2,981,782		Warren, et al.	04-25-1961
	95	2,991,412		Kordesch	07-04-1961
	96	2,993,946		Lozier	07-25-1961
	97	3,003,015		Duddy	10-03-1961
	98	3,016,413		Pasquale, et al.	01-09-1962
	99	3,042,732		Kordesch	07-03-1962
	100	3,043,896		Herbert, et al.	07-10-1962
	101	3,048,645		Ruben	08-07-1962
	102	3,056,849		Warren, et al.	10-02-1962
	103	3,060,255		Lozier	10-23-1962
	104	3,100,163		Lyons, Jr.	08-06-1963
	105	3,100,164		Solomon, et al.	08-06-1963
	106	3,114,659		Warren	12-27-1963
	107	3,121,029		Duddy	02-11-1964
	108	3,154,435		Kitagawa, et al.	10-27-1964
	109	3,158,798		Sauder	11-24-1964
	110	3,170,820		Drengler, et al.	02-23-1965
	111	3,189,486		Pryor, et al.	06-15-1965
	112	3,205,096		Honer, et al.	09-07-1965
	113	3,207,633		Meltzer, et al.	09-21-1965
	114	3,214,299		Balaguer	10-26-1965
	115	3,236,690		Booe, et al.	02-22-1966
	116	3,240,688		Pryor, et al.	03-15-1966
	117	3,258,415		Kordesch	06-28-1966
	118	3,266,936		Lrebs	08-16-1966
	119	3,269,869		Mendelsohn	08-30-1966
	120	3,287,164		Arrance	11-22-1966
	121	3,287,166		Arrance	11-22-1966
	122	3,303,054		Gruber, et al.	02-07-1967

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Sheet	5	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	123	3,316,159		Louzos, et al.	04-25-1967
	124	3,317,349		Elliott, et al.	05-02-1967
	125	3,330,701		McElhill, et al.	07-16-1967
	126	3,335,031		Kordesch	08-08-1967
	127	3,355,329		Wilke	11-28-1967
	128	3,368,924		Benderly, et al.	02-13-1968
	129	3,368,952		Pryor, et al.	02-13-1968
	130	3,368,958		Pryor, et al.	02-13-1968
	131	3,415,688		Foucry, et al.	12-10-1968
	132	3,433,679		Johnson, et al.	03-18-1969
	133	3,440,110		E. Arbter	04-22-1969
	134	3,441,445		Ehrlich, et al.	04-29-1969
	135	3,466,195		Spellman, et al.	09-09-1969
	136	3,468,710		Krasnow, et al.	09-23-1969
	137	3,484,295		Dawson	12-16-1969
	138	3,537,397		Ripley, et al.	11-03-1970
	139	3,597,276		Jammet	08-31-1971
	140	3,607,403		Arrance	09-21-1971
	141	3,615,858		Soto-Krebs	10-26-1971
	142	3,617,387		Gulke, et al.	11-02-1971
	143	3,647,542		Berger	03-07-1972
	144	3,652,339		Gulke	04-28-1972
	145	3,655,450		Soto-Krebs	04-11-1972
	146	3,663,182		Hamling	05-16-1972
	147	3,671,319		Arrange	06-20-1972
	148	3,679,489		Jammet	07-25-1972
	149	3,740,271		Jammet, et al.	06-19-1973
	150	3,749,608		Sarbacher	07-31-1973
	151	3,757,793		Fester, et al.	09-11-1973
	152	3,796,606		Lehmann, et al.	03-12-1974
	153	3,802,923		F. Spanur	04-09-1974
	154	3,839,092		Hausler, et al.	10-01-1974

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Sheet	6	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	155	3,847,674		Kegelman	11-12-1974
	156	3,853,630		Hausler, et al.	12-10-1974
	157	3,864,171		Mills, et al.	02-04-1975
	158	3,865,631		Clayman	02-11-1975
	159	3,880,672		Megahed, et al.	04-29-1975
	160	3,884,721		Tucholski	05-20-1975
	161	3,894,889		Gilliman, et al.	07-15-1975
	162	3,897,265		Jaggard	07-29-1975
	163	3,907,598		Megahed	09-23-1975
	164	3,923,550		Von Krusenstierna	12-02-1975
	165	3,951,687		Takamura, et al.	04-20-1976
	166	3,953,238		Honer	04-27-1976
	167	3,953,241		Langer, et al.	04-27-1976
	168	3,990,917		Clayman	11-09-1976
	169	4,015,055		Langan, et al.	03-29-1977
	170	4,018,970		Jumel, et al.	04-19-1977
	171	4,025,698		Von Krusenstierna	05-24-1977
	172	4,037,033		Takamura, et al.	07-19-1977
	173	4,054,727		O'Nan, et al.	10-18-1977
	174	4,060,676		Dey, et al.	11-29-1977
	175	4,084,047		Himy, et al.	04-11-1978
	176	4,091,181		Merritt, Jr.	05-23-1978
	177	4,104,420		Jordan, et al.	08-01-1978
	178	4,105,480		Sterling, et al.	08-08-1978
	179	4,146,681		F. Spanur	03-27-1979
	180	4,154,912		Philipp, et al.	05-15-1979
	181	4,218,275		Kadija, et al.	08-19-1980
	182	4,218,280		Philipp, et al.	08-19-1980
	183	4,230,549		D'Agostino, et al.	10-28-1980
	184	4,262,067		Philipp, et al.	04-14-1981
	185	4,272,470		Hsu, et al.	06-09-1981
	186	4,277,572		Fujiwara, et al.	07-07-1981

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	187	4,309,493		Kuhl, et al.	01-05-1982
	188	4,327,157		Himy, et al.	04-27-1982
	189	4,331,746		Sheibley	05-25-1982
	190	4,350,610		Jung, et al.	09-21-1982
	191	4,357,402		Sheibley, et al.	11-02-1982
	192	4,361,632		Weber, et al.	11-30-1982
	193	4,371,596		Sheibley	02-01-1983
	194	4,438,185		Taskier	03-20-1984
	195	4,440,838		Schmidt	04-03-1984
	196	4,487,822		Ruben	12-11-1984
	197	4,490,448		Williamson, III	12-25-1984
	198	4,505,998		Hsu, et al.	03-19-1985
	199	4,579,791		Wang	04-01-1986
	200	4,604,335		Johnson	08-05-1986
	201	4,734,344		Choi	03-29-1988
	202	4,767,687		LaBonte	03-30-1988
	203	4,812,145		LaBonte	03-14-1989
	204	4,833,050		Whitney, et al.	05-23-1989
	205	4,937,154		Moses, et al.	06-26-1990
	206	4,965,147		Mas, et al.	10-23-1990
	207	5,019,467		Fujiwara	05-28-1991
	208	5,075,958		Kelemen, et al.	12-31-1991
	209	5,077,150		Yoneda	12-31-1991
	210	5,122,375		Sklarchuck, et al.	06-16-1992
	211	5,154,731		J. Winger	10-13-1992
	212	5,164,274		Kordes, et al.	11-17-1992
	213	5,208,120		Winger	05-04-1993
	214	5,219,685		Taniguchi et al.	06-15-1993
	215	5,268,243		Noda, et al.	12-07-1993
	216	5,283,139		Newman, et al.	02-01-1994
	217	5,290,645		Tanaka, et al.	03-01-1994
	218	5,298,348		Kung	03-24-1994

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	219	5,366,832		Hayashi, et al.	11-22-1994
	220	5,389,471		Kung	02-14-1995
	221	5,478,669		R. Flack	12-26-1995
	222	5,482,798		Mototani, et al.	01-06-1996
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	224	5,543,249		Takeuchi, et al.	08-06-1996
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PTO/SB/08A INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/582,193
				Filing Date	June 9, 2006
				Confirmation Number	TBD
				First Named Inventor	William Bushong
				Group Art Unit	TBD
				Examiner Name	TBD
Sheet	16	of	16	Attorney Docket No.	RAYO 9306.10 (RP-1629SE)

	437	WO	03/0009406	A1	Matsushita Electric Inc., Co., Ltd.	01-30-2003	
	438	WO	03/096448	A2	The Gillette Company	11-20-2003	
	439	WO	2004/082093	A2	The Gillette Company	09-23-2004	
	440	WO	2004/102699	A2	Eveready Battery Company, Inc.	11-25-2004	
	441	WO	2005/060026	A2	Rovcal, Inc.	06-30-2005	

OTHER ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ⁶
	442	FLEROV, "Effect of Some Additives on the Passivation of a Zinc Anode and on the Performance of Alkali Zinc Galvanic Elements," Zuh. Priklad., Khim. (1957), Vol. 30, pp. 1326-30.	
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	445	MANSUETTO, et al., "An Improved CuO Cathode Material for Use in Primary Aqueous Batteries," Proceedings of the 41st Power Sources Conference, June 14-17, 2004.	
	446	MATRUS, "A High Amperage Caustic Soda Primary Battery," Trans. Electrochem. Soc., (1935), Vol. 68, p. 7 (abstract).	
	447	SCHUMACHER, et al., "The Alkaline Cell with Copper Oxide or Air Depolarizer (1902-1952)," J. Electrochem. Soc., (1952), Vol. 99, p. 191C.	
	448	SCHUMACHER, "Alkaline Copper Oxide: Zinc Cell," Primary Battery, (1971), Vol. 1, 191-206, Eds. George W. Heise, New York, NY (abstract).	
	449	International Search Report from PCT/US2004/025894, dated February 10, 2006.	
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	451	International Search Report from PCT/US2005/004488, dated May 18, 2006.	
	452	Invitation to Pay Additional Fees from PCT/US2004/025809, dated February 3, 2006.	
	453	Invitation to Pay Additional Fees from PCT/US2004/025895, dated March 21, 2006.	
	454	Invitation to Pay Additional Fees from PCT/US2004/041484, dated May 19, 2006.	
	455	Invitation to Pay Additional Fees from PCT/US2005/004488, dated March 22, 2006.	

Examiner Signature		Date Considered	
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